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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/043,047	01/09/2002	Chang-Sik Yoo	SAM-0204	5014		
7590 02/22/2005			EXAM	EXAMINER		
MILLS & ONELLO LLP			CHEN, TSE W			
Suite 605	_					
Eleven Beacon Street			ART UNIT	PAPER NUMBER		
Boston, MA 02108			2116			
			DATE MAILED: 02/22/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application	No.	Applicant(s)				
Office Action Summary		10/043,047		YOO ET AL.					
		-	Examiner		Art Unit				
			Tse Chen		2116				
The MAI Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
A SHORTENED THE MAILING - Extensions of time after SIX (6) MONT - If the period for rep - If NO period for rept - Failure to reply with Any reply received	D STATUTORY PERIOD F DATE OF THIS COMMUN may be available under the provisions THS from the mailing date of this comm ly specified above is less than thirty (3 bly is specified above, the maximum st nin the set or extended period for reply by the Office later than three months a adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136 nunication. so) days, a reply watutory period will will, by statute, c	6(a). In no event within the statuto ill apply and will e cause the applica	however, may a reply be tim ry minimum of thirty (30) days xpire SIX (6) MONTHS from tion to become ABANDONEI	nely filed s will be considered timel the mailing date of this c O (35 U.S.C. § 133).				
Status									
1) Respons	ive to communication(s) file	ed on <u>09 Jan</u>	nuary 2002.						
2a) ☐ This action	This action is FINAL . 2b) This action is non-final.								
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Cla	ims								
4a) Of the 5) ☐ Claim(s) 6) ☐ Claim(s) 7) ☐ Claim(s)	 4) Claim(s) 1-65 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-65 are subject to restriction and/or election requirement. 								
Application Paper	's								
10) The drawing Applicant Replacem	fication is objected to by thing(s) filed on is/are may not request that any object drawing sheet(s) including or declaration is objected to	: a) ☐ accept ction to the dig the correction	epted or b) drawing(s) be on is required	held in abeyance. See if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C				
Priority under 35 l	U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment(s)									
1) Notice of Referen	nces Cited (PTO-892)		4) Interview Summary					
	erson's Patent Drawing Review (Fosure Statement(s) (PTO-1449 or Date			Paper No(s)/Mail Da) Notice of Informal P) Other:		O-152)			

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DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

- Group A contains the following species:
 - o Memory system with claimed operations based on clock signals.
 - Memory system with claimed operations based on flag signals.
 - o Memory system with claimed operations based on both clock and flag signals.
- Group B contains the following species:
 - Memory module that includes a control buffer that generates a second signal in response to a first signal.
 - Memory module that includes a phase locked loop that generates a second signal in response to a first signal.
 - Memory module that includes a delay locked loop that generates a second signal

 in response to a first signal.
 - Memory module that includes a return path that generates a second signal in response to a first signal.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 16, 25, 26, 54, 57, 58, 60, and 62-65 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable

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thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

2. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tse Chen whose telephone number is (571) 272-3672. The examiner can normally be reached on Monday - Friday 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tse Chen February 16, 2005 EYNNE H. BROWNE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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